Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

REV 15I

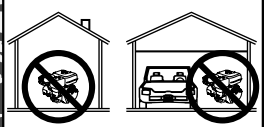
PREDATOR™
OUTDOOR POWER EQUIPMENT

208cc 26"
FRONT TINE TILLER

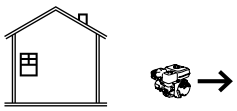
⚠ DANGER

Using an engine indoors CAN KILL YOU IN MINUTES.

Engine exhaust contains carbon monoxide. This is a poison you cannot see or smell.



NEVER use inside a home or garage, EVEN IF doors and windows are open.



Only use OUTSIDE and far away from windows, doors, and vents.

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com
Email our engine support at: predator@harborfreight.com

ITEM 62548

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠ WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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Specifications

Front Tine Tiller Specifications

Maximum Tilling Depth	6.5" (165 mm)
Maximum Tilling Width	26" (660 mm)
Drive Type	Belt and Chain
Drive Actuation	Clutch Drive (Handle Lever Operated)
Depth Adjustment Steps	6
Overall Dimensions	51" L x 25" W x 42-1/2" H
Wheels	8" Diameter x 1-3/4" W
Weight	118 Pounds

Engine Specifications

Displacement		208cc
Engine Type		Horizontal Single Cylinder 4-stroke
Cooling System		Forced air cooled
Fuel	Type	87+ octane unleaded gasoline treated with fuel stabilizer
	Capacity	0.66 Gallon (2.5 Liter)
Engine Oil	Type SAE	10W-30 above 32° F 5W-30 at 32° F or below
	Capacity	20 ounces (0.6 Liter)
Sound Level at 1 meter		95 dB
Bore x Stroke		70 mm x 54 mm
Compression Ratio		8.8:1
Rotation viewed from PTO (power takeoff - the output shaft)		Counterclockwise
Spark Plug	Type	Torch® F6TC
	Gap	0.0275" – 0.0314"
Valve Clearance	Intake	0.0059" –0.0078"
	Exhaust	0.0059"–0.0078"
Speed	Idle	1560 ± 50 RPM

The emissions control system for this Engine is warranted for standards set by the U.S. Environmental Protection Agency. For warranty information, refer to the last pages of this manual.

WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

Symbol Definitions

Symbol	Property or Statement
RPM	Revolutions Per Minute
HP	Horsepower
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.

Symbol	Property or Statement
	WARNING marking concerning Risk of Respiratory Injury. Operate engine OUTSIDE and far away from windows, doors, and vents.
	WARNING marking concerning Risk of Fire while handling fuel. Do not smoke while handling fuel.
	WARNING marking concerning Risk of Fire. Do not refuel while operating. Keep flammable objects away from engine.

IMPORTANT

Safe Operation Practices for Walk-Behind Powered Rotary Tillers and Hand Supported Cultivators

Training

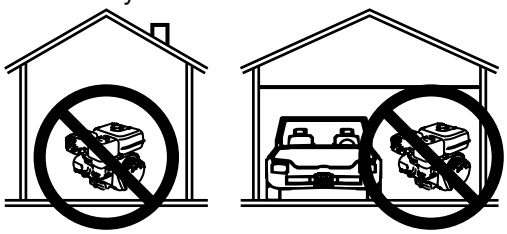
1. Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
3. Keep the area of operation clear of all persons, particularly small children, and pets.
4. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.

Preparation

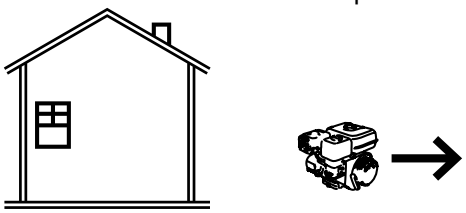
1. Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.
2. Disengage all clutches and shift into neutral before starting the engine.
3. Do not operate the equipment without wearing adequate outer garments. Wear protective footwear that will improve footing on slippery surfaces.
4. Warning: Fuel is highly flammable. Take the following precautions:
   (a) Store fuel in containers specifically designed for this purpose.
   (b) Refuel outdoors only and do not smoke while refueling.
   (c) Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
   (d) If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until fuel vapors have dissipated.
   (e) Replace all fuel tank and container caps securely.
5. Never attempt to make any adjustments while the engine is running.
6. Have multiple ABC class fire extinguishers nearby.
7. Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.
8. Set up and use only on a flat, level, well-ventilated surface.
9. Wear ANSI-approved safety goggles, heavy-duty work gloves, and dust mask/respirator during set up.
10. Use only lubricants and fuel recommended in the Specifications chart of this manual.
11. **NEVER till above or near any electrical cables, gas pipes, or any other utility lines.** Contact your local utility company before using the Front Tine Tiller.
12. **Thoroughly inspect the area where the Front Tine Tiller is to be used.** Beware of possible buried obstacles such as cable, conduit, irrigation lines, and landscape fabric. Remove all large sticks, stones, wires, or other foreign objects.

Operation

1. Do not put hands or feet near or under rotating parts.
2. Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
3. After striking a foreign object, stop the engine, remove the wire from the spark plug, thoroughly inspect the machine for any damage, and repair the damage before restarting and operating the machine.
4. Exercise caution to avoid slipping or falling.
5. If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning sign of trouble.
6. Stop the engine when leaving the operating position, before unclogging the tines, and when making any repairs, adjustments, and inspections.
7. Take all possible precautions when leaving the machine unattended. Disengage the power take-off, lower the attachment, shift into neutral, stop the engine, and remove the key.
8. Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
9. Do not operate the engine in a confined space where dangerous carbon monoxide gas can collect.
10. Never operate the machine without proper guards, plates, or other safety protective devices in place.
11. Keep children and pets away.
12. Do not overload the machine capacity by attempting to till too deep at too fast a rate.
13. Never operate the machine at high transport speeds on hard or slippery surfaces.
14. Never allow bystanders near the unit.
15. Use only attachments and accessories approved by the manufacturer of the machine (such as wheel weights, counterweights, and the like).
16. Never operate the tiller without good visibility or light.
17. Be careful when tilling in hard ground. The tines may catch in the ground and propel the tiller forward. If this occurs, let go of the handlebars and do not restrain the machine.
18. Use extreme caution when reversing or pulling the machine towards you.
19. Do not change the engine governor settings or overspeed the engine.
20. Start the engine carefully according to instructions and with feet well away from the tines
21. Never pick up or carry a machine while the engine is running.
22. Do not operate the tiller while under the influence of alcohol or drugs.
23. **CARBON MONOXIDE HAZARD Using an engine indoors CAN KILL YOU IN MINUTES.** Engine exhaust contains carbon monoxide. This is a poison you cannot see or smell.



NEVER use inside a home or garage, EVEN IF doors and windows are open.



Only use OUTSIDE and far away from windows, doors, and vents.

24. **DO NOT engage the Forward and Reverse Clutch Levers at the same time.** This will result in unpredictable Tiller behavior and possible equipment damage.
25. **Do not use the Front Tine Tiller on steep inclines.** Use only on level ground surfaces.
26. **Keep a safe distance from the edges and banks of ditches.** Avoid any actions that may cause the Tiller to tip over.
27. Do not touch engine during use. Let engine cool down after use.
28. Industrial applications must follow OSHA requirements.
29. The equipment can produce high noise levels. Prolonged exposure to noise levels above 85 dBA is hazardous to hearing. Wear ear protection when operating the equipment.
30. Wear ANSI-approved safety glasses, hearing protection, heavy-duty work gloves and steel-toed boots during use.
31. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to a heart pacemaker could cause pacemaker interference or pacemaker failure. Caution is necessary when near the engine's magneto or recoil starter.
32. Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Gasoline-powered engines may ignite the dust or fumes.

33. Use this equipment with both hands only. Using equipment with only one hand can easily result in loss of control.
34. Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
35. Parts, especially exhaust system components, get very hot during use. Stay clear of hot parts.
36. Do not cover the equipment during operation.
37. Keep the equipment, engine, and surrounding area clean at all times.
38. Do not operate the equipment with known leaks in the engine's fuel system.
39. WARNING: This product contains or, when used, produces a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (California Health & Safety Code § 25249.5, *et seq.*)
40. WARNING: This product contains di (2-ethylhexyl) phthalate (DEHP), a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. (California Health & Safety Code § 25249.5, *et seq.*)
41. When spills of fuel or oil occur, they must be cleaned up immediately. Dispose of fluids and cleaning materials as per any local, state, or federal codes and regulations. Store oil rags in a bottom-ventilated, covered, metal container.
42. Before use, check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the equipment's operation. **If damaged, have the equipment serviced before using.** Many accidents are caused by poorly maintained equipment.
43. Do not modify the Tiller and do not use the Tiller for a purpose for which it is not intended.

Maintenance and Storage

1. Keep machine, attachments, and accessories in safe working condition.
2. Check shear bolts, engine mounting bolts, and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
3. Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
4. Always refer to the operator's manual for important details if the tiller is to be stored for an extended period.
5. If the fuel tank has to be drained, do this outdoors.
6. Follow manufacturer's recommendations for safe loading, unloading, transport, and storage of machine.
7. **Before service, maintenance, or cleaning:**
   a. **Turn the Engine Switch to its "OFF" position.**
   b. **Allow the Engine to completely cool.**
   c. **Then, remove the Spark Plug Cap from the Spark Plug.**
8. **Do not alter or adjust any part of the equipment or its engine that is sealed by the manufacturer or distributor.**
9. Do not store fuel or other flammable materials near the engine.
10. Wear ANSI-approved safety goggles, heavy-duty work gloves, and dust mask/respirator during service.
11. Maintain labels and nameplates on the equipment. These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
12. Have the equipment serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the equipment is maintained. Do not attempt any service or maintenance procedures not explained in this manual or any procedures that you are uncertain about your ability to perform safely or correctly.
13. Store equipment out of the reach of children.
14. Follow scheduled engine and equipment maintenance.

WARNING! Read all instructions.
Failure to follow all instructions listed below may result in fire, serious injury and/or DEATH.
The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS.

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠WARNING

TO PREVENT SERIOUS INJURY: Operate only with proper spark arrestor installed.

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL STARTING: Turn the Power Switch of the equipment to its "OFF" position, wait for the engine to cool, and unplug the spark plug wire(s) before assembling or making any adjustments to the equipment.

At high altitudes, the engine's carburetor, governor (if so equipped), and any other parts that control the fuel-air ratio will need to be adjusted by a qualified mechanic to allow efficient high-altitude use and to prevent damage to the engine and any other devices used with this product.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Assembly

Attach the Handlebar Assembly to the Handlebar Frame (49) using four Hex Head Flange Bolts (72), Flat Washers (66), Spring Washers (67), and Nuts (62). Refer to Figure A.

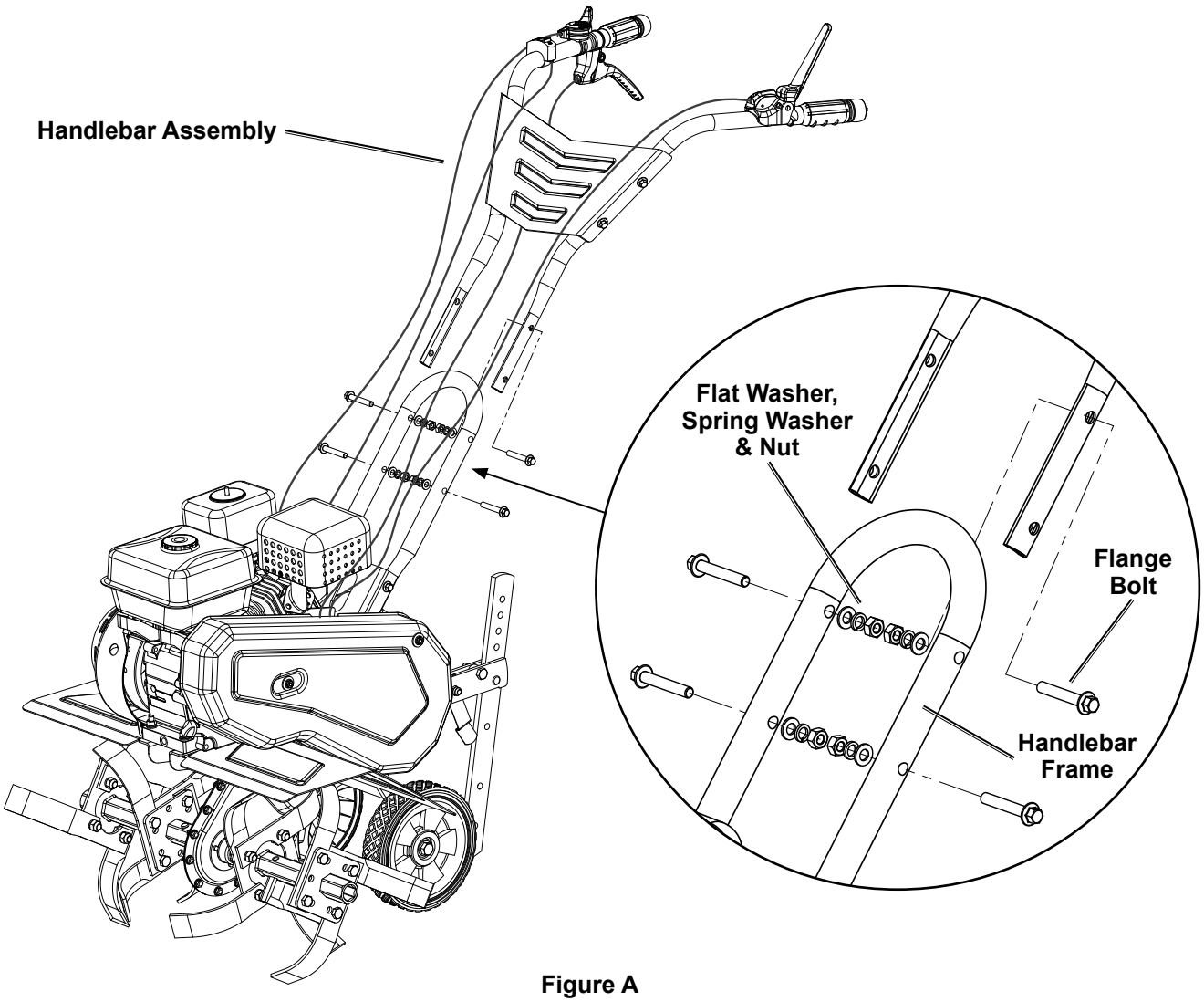
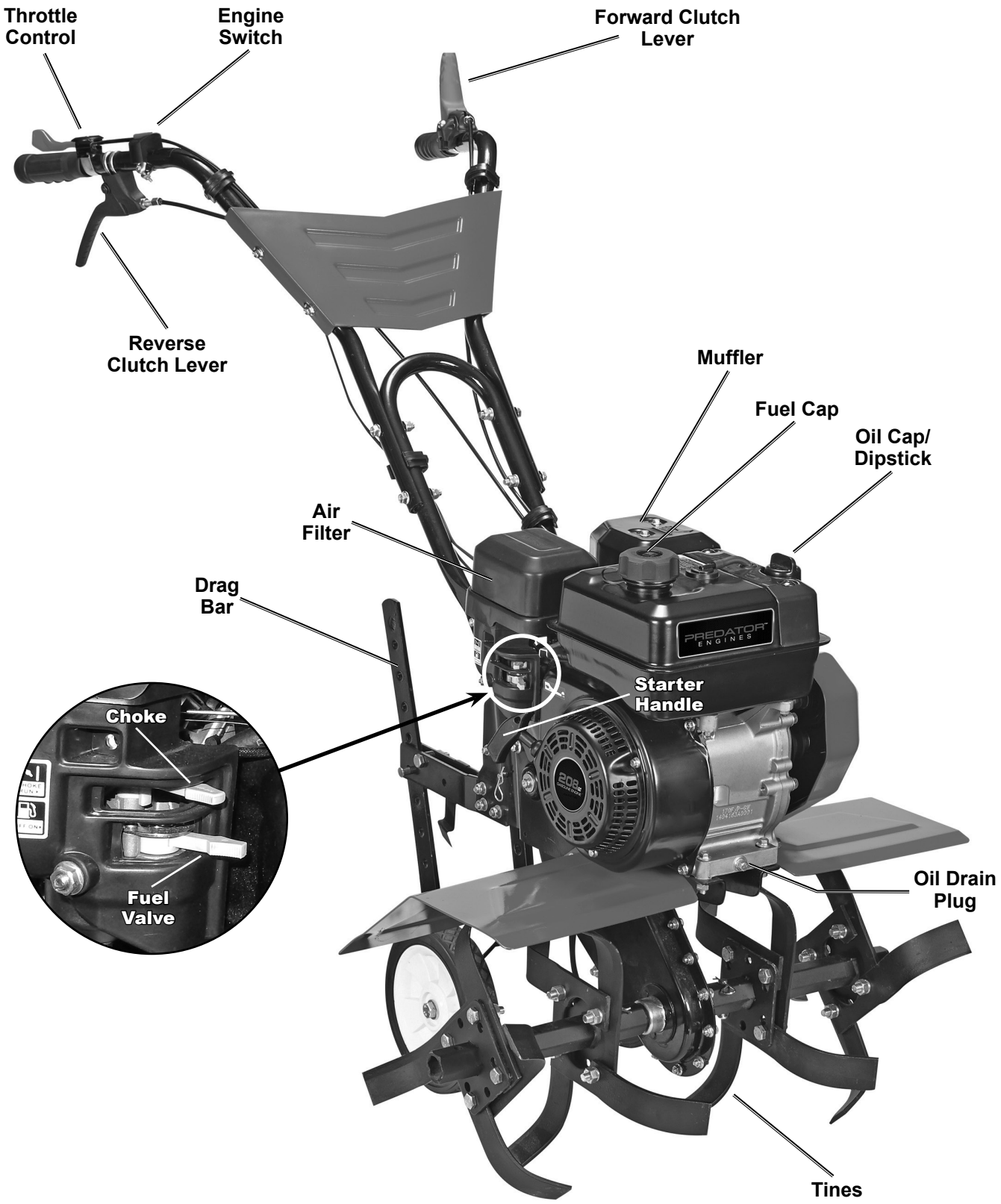


Figure A

Components and Controls



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

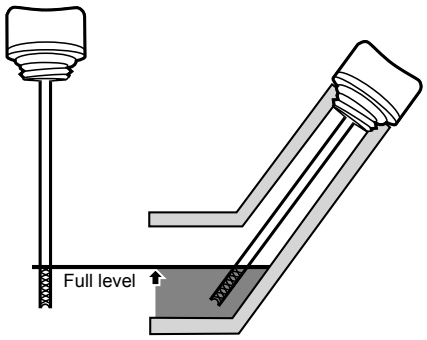
Engine and Equipment Pre-Start Checks

Inspect engine and equipment looking for damaged, loose, and missing parts before set up and starting. If any problems are found, do not use equipment until fixed properly.

Checking and Filling Engine Oil

NOTICE: Your Warranty is VOID if the engine's crankcase is not properly filled with oil before each use. Before each use, check the oil level. Engine will not start with low or no engine oil.

1. Make sure the engine is stopped and is level.
2. Close the Fuel Valve.
3. Clean the top of the Dipstick and the area around it. Remove the Dipstick by turning it counterclockwise, and wipe it off with a clean, lint free rag.
4. Reinsert the Dipstick without threading it in and remove it to check the oil level. The oil level should be up to the full level as shown at right.



5. If the oil level is at or below the low mark add the appropriate type of oil until the oil level is at the proper level. SAE 10W-30 oil is recommended for general use. (The SAE Viscosity Grade chart on page 18 in the Maintenance section shows other viscosities to use in different average temperatures.)
6. Thread the dipstick back in clockwise.

NOTICE: Do not run the engine with too little oil. The engine will shut off if too little engine oil is used.

Checking and Filling Fuel

⚠WARNING! TO PREVENT SERIOUS INJURY FROM FIRE:
Fill the fuel tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before adding fuel. Do not smoke.

1. Clean the Fuel Cap and the area around it.
2. Unscrew and remove the Fuel Cap.
3. Remove the Strainer and remove any dirt and debris. Then replace the Strainer.

Note: Do not use gasoline containing more than 10% ethanol (E10). Do not use E85 ethanol. Add fuel stabilizer to the gasoline or the Warranty is VOID.

Note: Do not use gasoline that has been stored in a metal fuel container or a dirty fuel container. It can cause particles to enter the carburetor, affecting engine performance and/or causing damage.

4. If needed, fill the Fuel Tank to about 1 inch under the fill neck of the Fuel Tank with 87 octane or higher unleaded gasoline that has been treated with a fuel stabilizer additive. Follow fuel stabilizer manufacturer's recommendations for use.
5. Then replace the Fuel Cap.
6. Wipe up any spilled fuel and allow excess to evaporate before starting engine. To prevent FIRE, do not start the engine while the smell of fuel hangs in the air.

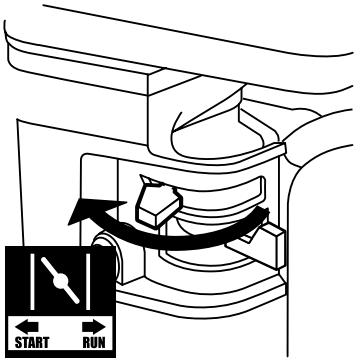
Starting the Engine

Before Starting the Engine

a. **Inspect the equipment and engine.**
b. **Fill the engine with the proper amount and type of both oil and unleaded gasoline treated with fuel stabilizer.**
c. **Make sure that the Forward and Reverse Clutch Levers are disengaged.**

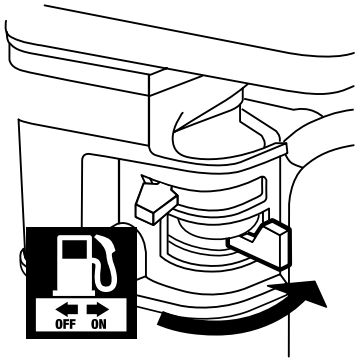
1. To start a cold engine, move the Choke to the START position.
   To restart a warm engine, leave the Choke in the RUN position.

1



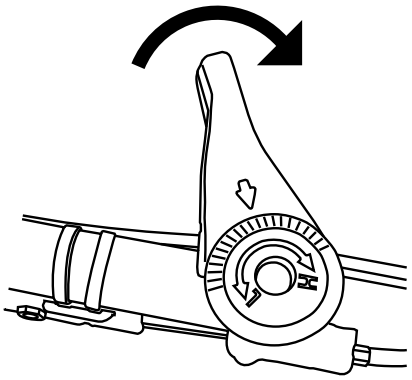
2. Open the Fuel Valve.

2



3. Rotate the Throttle Control clockwise to halfway between the low and high position.

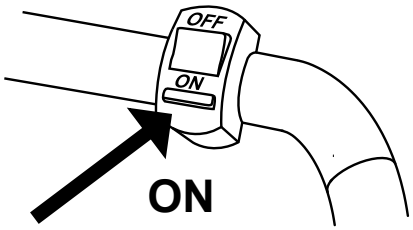
3



4. Turn the Engine Switch on.

Note: If engine does not start, check engine oil. Engine will not start with low or no engine oil.

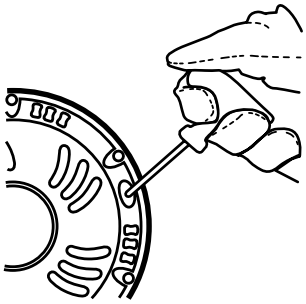
4



5. Grip the Starter Handle of the Engine loosely and pull it slowly several times to allow the gasoline to flow into the Engine's carburetor. Then pull the Starter Handle gently until resistance is felt. Allow Cable to retract fully and then pull it quickly. Repeat until the Engine starts.

Note: Do not let the Starter Handle snap back against the Engine. Hold it as it recoils so it doesn't hit the Engine.

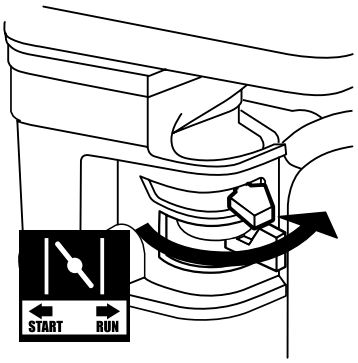
5



6. Allow the Engine to run for several seconds. Then, if the Choke lever is in the START position, move the Choke lever very slowly to its RUN position.

Note: Moving the Choke lever too fast could stall the engine.

6



IMPORTANT: Allow the Engine to run at no load for five minutes after each start-up so that the Engine can stabilize.

7. Adjust the Throttle Control Lever as needed.

Break-in Period:

a. Breaking-in the engine will help to ensure proper equipment and engine operation.

b. The operational break-in period will last about 3 hours of use. During this period:

- Do not apply a heavy load to the equipment.
- Do not operate the engine at its maximum speed.

c. The maintenance break-in period will last about 20 hours of use.

- Change the engine oil after this period.

Under normal operating conditions subsequent maintenance follows the schedule explained in the MAINTENANCE section.

Tiller Operation

⚠WARNING

TO PREVENT SERIOUS INJURY: Keep hands, fingers, feet, and loose clothing away from rotating Tines.

BEWARE of possible buried obstacles such as cable, conduit, irrigation lines, and landscape fabric.

DO NOT till above or near any electrical cables, gas pipes, or any other utility lines. Contact your local utility company before using the Front Tine Tiller.

1. Before starting the Engine, set the desired tilling depth (to a maximum 6.5" deep) by adjusting the Drag Bar (91) and Wheel Assembly:
   a. To adjust the Drag Bar remove the R-Clip (35) and Clevis Pin (78). Lower the Drag Bar to increase tilling depth or raise Bar to decrease depth. Replace the Clevis Pin and R-Clip. Refer to Figure B.
   b. Set the Drag Bar below the level of the Wheel Assembly. If necessary, remove the R-Clip (35) and Clevis Pin (77) from the Wheel Assembly and adjust as needed. Replace the Clevis Pin and R-Clip.

Note: Optimum tilling depth (generally 4"–6") will vary with soil conditions. If Tiller shakes or is difficult to control, the Drag Bar and Wheel Assembly are not correctly set for the conditions. Adjustment through trial and error is required to achieve the correct setting.

2. **WARNING!** Before first use, practice operating the Tiller controls with Tines raised off of the ground. Know how to keep control at all times, how to stop the Tines from turning, and how to stop the Engine. For actual field use, operate with Throttle Control in slow position until familiar with Tiller handling.

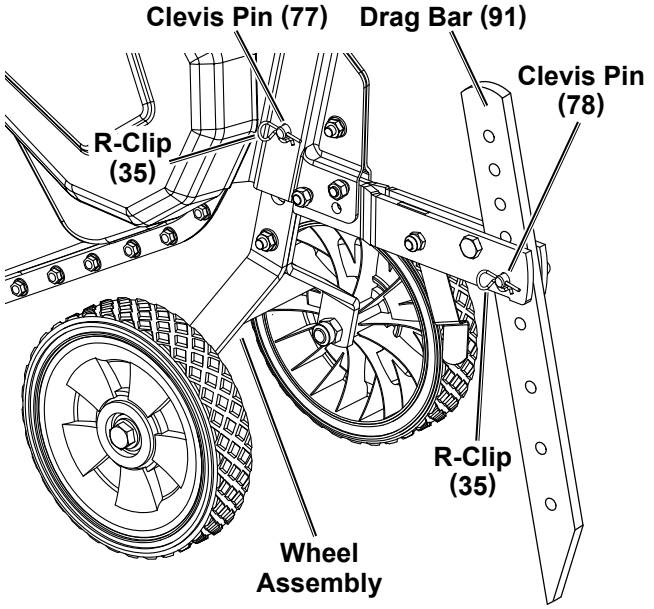


Figure B

3. Start the Engine following instructions in *Manual Start* on page 12.
4. Grip the Handles firmly with both hands.
5. To move the Tiller in a forward direction, **make sure the Reverse Clutch Lever (90) is not engaged** and squeeze down on the Forward Clutch Lever (89) to rotate the Tines and move forward. Release the Forward Clutch Lever to stop Tine rotation and forward movement. Refer to Figure C.
6. To move the Tiller in a reverse direction, **make sure the Forward Clutch Lever is not engaged** and pull up on the Reverse Clutch Lever to rotate the Tines and move in reverse. Release the Reverse Clutch Lever to stop Tine rotation and backward movement.

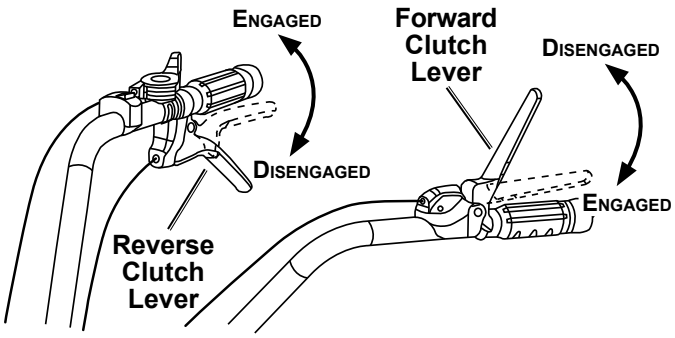


Figure C

7. The following soil conditions can affect tilling results:
   a. On soil that is too hard and/or dried out for the Tines to penetrate, the Tiller will shake excessively and jump across the soil surface. Moisten dry, hardened soil prior to tilling and use a shallow depth setting and slow Engine speed.
   b. Exceedingly wet soil will form clumps during tilling and clog the Tines. Allow wet soil to partially dry before tilling and use a slow Engine speed to improve results.

CAUTION! DO NOT engage the Forward and Reverse Clutch Levers at the same time. This will result in unpredictable Tiller behavior and possible equipment damage.

NOTICE: Should the Tines jam or the Tiller strike a foreign object during use, immediately release the Clutch Lever and turn off the Engine. Wait until the machine completely stops. Disconnect the Spark Plug cap, remove foreign objects and inspect the Tiller. If any damage is found have the problem corrected before further use.

Narrow Width Tilling

The Tiller may be set up for narrow tilling by removing the outer Tine Blades from each of the two Tine Blade Assemblies using the following procedure:

a. Make sure the Engine Switch is in the “OFF” position and disconnect the Spark Plug cap.

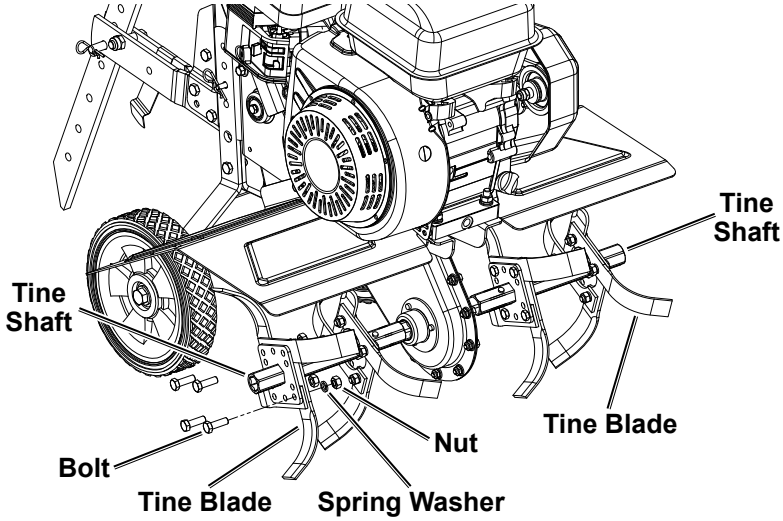
b. Loosen and remove four sets of Bolts (59), Spring Washers (60), and Nuts (61) securing the outer Tine Blades in place on the Tine Shaft of each Tine Blade Assembly. Remove the Blades and set aside with the hardware. Refer to Figure D.

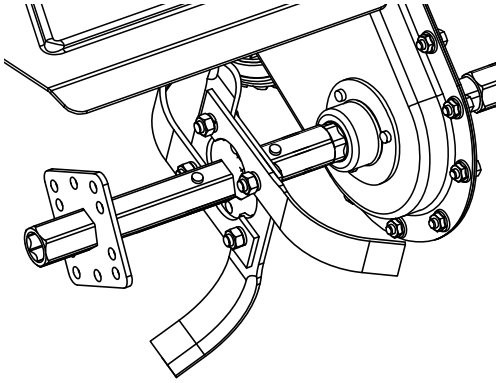
Note: Examine Tine Blade positioning and hardware alignment before removal to make correct reattachment easier.

c. Make sure the outer Tine Blades are removed from both Tine Blade Assemblies before operating Tiller.

d. To return to normal width tilling replace the outer Tine Blades onto both Tine Shafts. When reattaching the Tine Blades make sure the Blades and hardware are replaced in the same orientation as when removed.

Note: When installed properly the cutting edges of the Tine Blades will face forward.



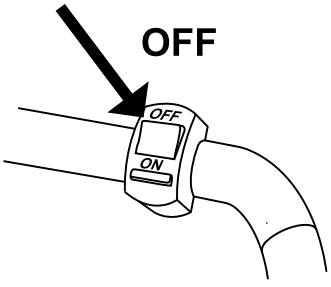


Tine Blade Assembly with outer Tine Blades removed from Tine Shaft.

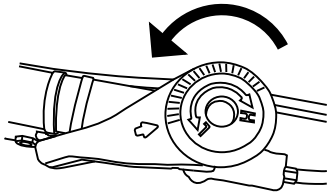
Figure D

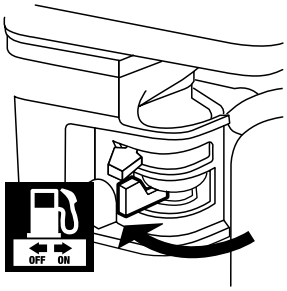
Stopping the Engine and Tiller

1. To stop the Engine in an emergency, turn the Engine Switch off.



2. Under normal conditions, use the following procedure:
   a. Release the Clutch Lever.
   b. Rotate the Throttle Control counterclockwise to the low position.
   c. Turn the Engine Switch off.
   d. Close the Fuel Valve.
   e. Clean external parts with clean cloth, remove debris from Tine Blades and Shaft, then cover the equipment and store in a dry, level, well-ventilated area out of reach of children.





NOTICE
See Long-Term Storage on page 21 for complete storage instructions.

Maintenance

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL STARTING:
Turn the Power Switch of the equipment to its "OFF" position, wait for the engine to cool, and disconnect the spark plug cap before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM EQUIPMENT FAILURE:
Do not use damaged equipment. If abnormal noise, vibration, or excess smoking occurs, have the problem corrected before further use.

Follow all service instructions in this manual. The engine may fail critically if not serviced properly.

Many maintenance procedures, including any not detailed in this manual, will need to be performed by a qualified technician for safety. If you have any doubts about your ability to safely service the equipment or engine, have a qualified technician service the equipment instead.

Cleaning, Maintenance, and Lubrication Schedule

Note: This maintenance schedule is intended solely as a general guide. If performance decreases or if equipment operates unusually, check systems immediately. The maintenance needs of each piece of equipment will differ depending on factors such as duty cycle, temperature, air quality, fuel quality, and other factors.

Note: The following procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the engine and equipment.

Procedure	Before Each Use	After Each Use	Monthly or every 20 hr. of use	Every 3 mo. or 50 hr. of use	Every 6 mo. or 100 hr. of use	Yearly or every 300 hr. of use	Every 2 Years
Brush off outside of engine	✓		✓	✓	✓	✓	✓
Check engine oil level	✓		✓	✓	✓	✓	✓
Check for loose hardware	✓		✓	✓	✓	✓	
Clean debris from Tine Blades and Shaft		✓	✓	✓	✓	✓	✓
Change engine oil			✓		✓	✓	✓
Check air cleaner				✓	✓	✓	✓
Clean air filter				✓*	✓	✓	✓
Check sediment cup					✓	✓	✓
Check and clean spark plug					✓	✓	✓
1. Check/adjust idle speed 2. Check/adjust valve clearance 3. Clean fuel tank, strainer and carburetor 4. Clean carbon build-up from combustion chamber						✓**	✓**
Replace fuel line if necessary							✓**

*Service more frequently when used in dusty areas.

**These items should be serviced by a qualified technician.

Checking and Filling Fuel

⚠WARNING! TO PREVENT SERIOUS INJURY FROM FIRE:
Fill the fuel tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before adding fuel. Do not smoke.

1. Clean the Fuel Cap and the area around it.
2. Unscrew and remove the Fuel Cap.
3. Remove the Strainer and remove any dirt and debris. Then replace the Strainer.

Note: Do not use gasoline containing more than 10% ethanol (E10). Do not use E85 ethanol. Add fuel stabilizer to the gasoline or the Warranty is VOID.

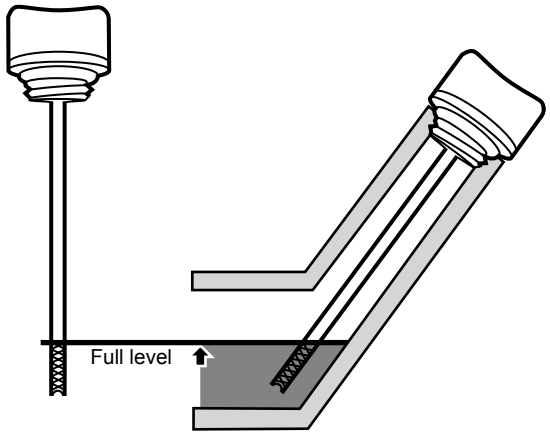
Note: Do not use gasoline that has been stored in a metal fuel container or a dirty fuel container. It can cause particles to enter the carburetor, affecting engine performance and/or causing damage.

4. If needed, fill the Fuel Tank to about 1 inch under the fill neck of the Fuel Tank with 87 octane or higher unleaded gasoline that has been treated with a fuel stabilizer additive. Follow fuel stabilizer manufacturer's recommendations for use.
5. Then replace the Fuel Cap.
6. Wipe up any spilled fuel and allow excess to evaporate before starting engine. To prevent FIRE, do not start the engine while the smell of fuel hangs in the air.

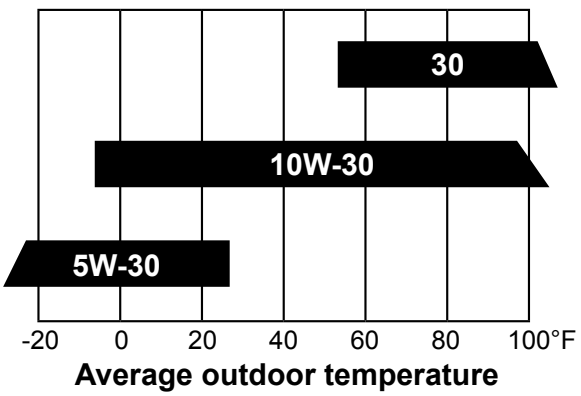
Engine Oil Change

⚠CAUTION! Oil is very hot during operation and can cause burns. Wait for engine to cool before changing oil.

1. Make sure the engine is stopped and is level.
2. Close the Fuel Valve.
3. Place a drain pan (not included) underneath the crankcase's drain plug.
4. Remove the drain plug and, if possible, tilt the crankcase slightly to help drain the oil out. Recycle used oil.
5. Replace the drain plug and tighten it.
6. Clean the top of the Dipstick and the area around it. Remove the Dipstick by turning it counterclockwise, and wipe it off with a clean, lint free rag.



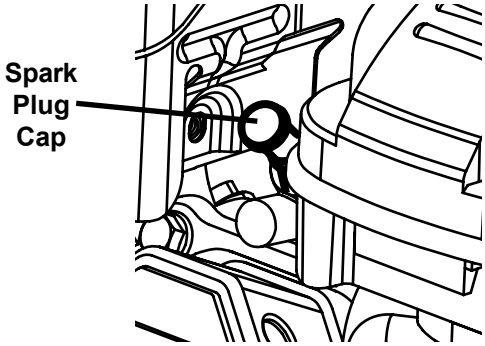
7. Add the appropriate type of oil until the oil level is at the full level. SAE 10W-30 oil is recommended for general use.
   The SAE Viscosity Grade chart shows other viscosities to use in different average temperatures.



8. Thread the dipstick back in clockwise.

NOTICE: Do not run the engine with too little oil. The engine will shut off if too little engine oil is used.

Spark Plug Maintenance



1. Disconnect spark plug cap from end of plug. Clean out debris from around spark plug.
2. Using a spark plug wrench, remove the spark plug.
3. Inspect the spark plug:
   If the electrode is oily, clean it using a clean, dry rag. If the electrode has deposits on it, polish it using emery paper. If the white insulator is cracked or chipped, the spark plug needs to be replaced.

Recommended Spark Plugs	
NGK®	BP-6ES
NHSP® / TORCH®	F6TC

NOTICE: Using an incorrect spark plug may damage the engine.

4. When installing a new spark plug, adjust the plug's gap to the specification on the Specifications chart. Do not pry against the electrode, the spark plug can be damaged.
5. Install the new spark plug or the cleaned spark plug into the engine.
   - **Gasket-style**: Finger-tighten until the gasket contacts the cylinder head, then tighten about 1/2-2/3 turn more.
   - **Non-gasket-style**: Finger-tighten until the plug contacts the cylinder head, then tighten about 1/16 turn more.

NOTICE: Tighten the spark plug properly.
If loose, the spark plug will cause the engine to overheat.
If overtightened, the threads in the engine block will be damaged.

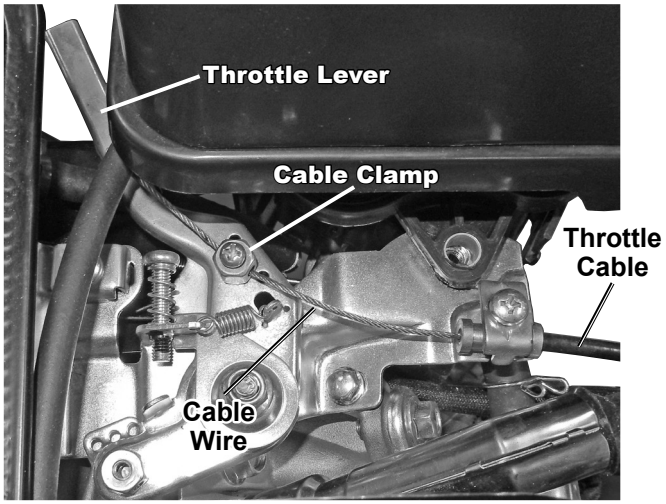
6. Apply dielectric spark plug boot protector (not included) to the end of the spark plug and reattach the wire securely.

Air Filter Maintenance

1. Remove the Air Cleaner Cover and the air filter(s) and check for dirt. Clean as described below.
2. **Cleaning:**
   - For paper filters:
     To prevent injury from dust and debris, wear ANSI-approved safety goggles, NIOSH-approved dust mask/respirator, and heavy-duty work gloves. In a well-ventilated area away from bystanders, use pressurized air to blow dust out of the filter.
   - For foam filters:
     Wash the filter in warm water and mild detergent several times. Rinse. Squeeze out excess water and allow it to dry completely. Soak the filter in lightweight oil briefly, then squeeze out the excess oil.
3. Install the cleaned filter(s). Secure the Air Cleaner Cover before use.

Throttle Cable Adjustment

1. Place the Throttle Control on the Handlebar in the high position.
2. If throttle lever on engine reaches the fully open position, no adjustment is required.
3. If adjustment is necessary, loosen the cable clamp screw.

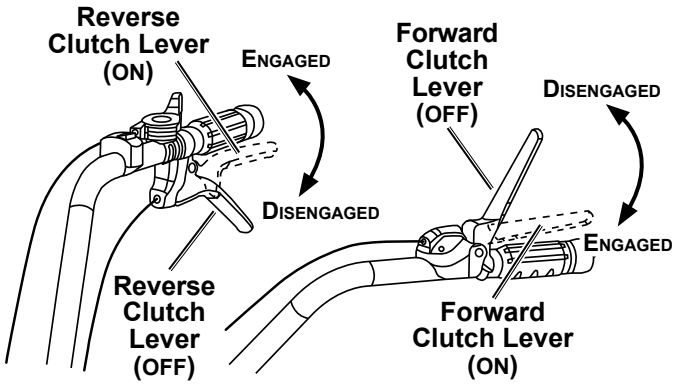


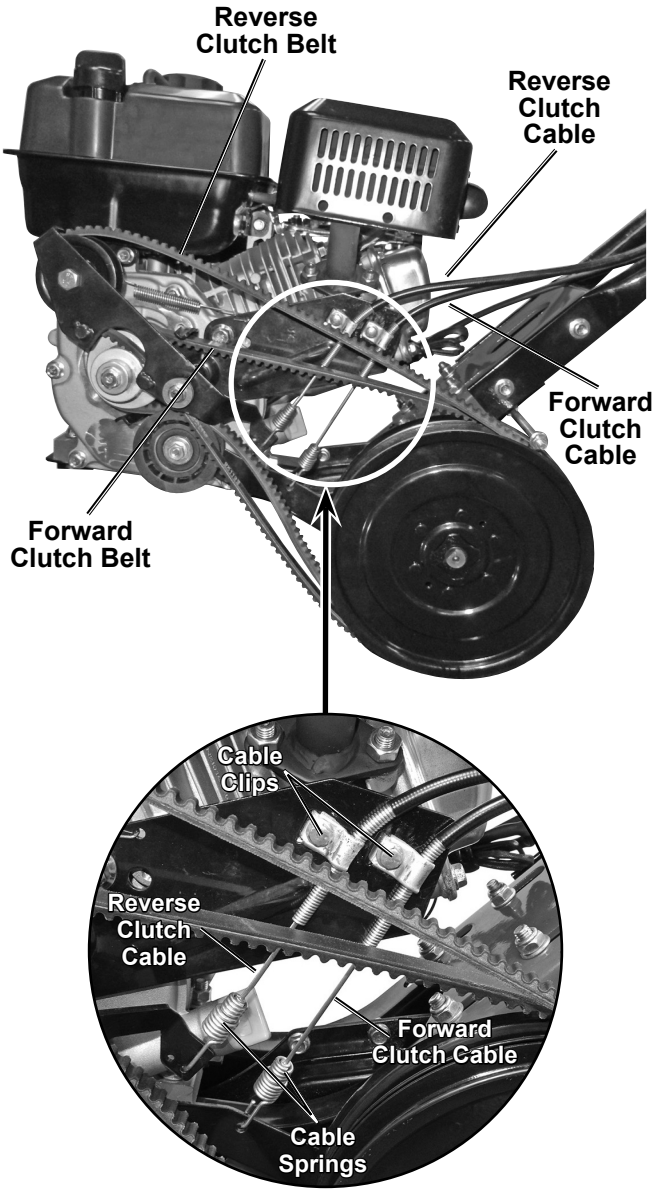
4. With the Throttle Control in the high position, pull the throttle cable wire tight through the cable clamp while holding the throttle lever in its fully open position.
5. Tighten the cable clamp screw.

Belt Tension Adjustment

NOTICE: Perform the following procedures with assistance to ensure safety and maintain control of the Tiller.

1. **Checking belt tension in OFF position:**
   a. **WARNING! Disconnect spark plug cap before checking belt tension.**
   b. With Forward and Reverse Clutch Levers in OFF (disengaged) position, push down on Handlebars to raise Tines off ground.
   c. Gently pull on Starter Handle. Tines should not rotate.
   d. If Tines rotate forward, the Forward Clutch Cable is too tight. If Tines rotate backward, the Reverse Clutch Cable is too tight.
   e. To adjust tension, remove the Belt Cover (46). Loosen the Cable Clip for the appropriate Cable and push down on Cable to reduce tension on the Cable Spring. Tighten the Cable Clip.
   f. Recheck belt tension and adjust as needed. Replace Belt Cover when finished.
2. **Checking forward belt tension in ON position:**
   a. **WARNING! Disconnect spark plug cap before checking belt tension.**
   b. Hold Forward Clutch Lever in ON (engaged) position and push down on Handlebars to raise Tines off ground.
   c. Gently pull on Starter Handle. Tines should rotate forward.
   d. If Tines do not rotate forward, the Forward Clutch Cable is too loose.
   e. To adjust tension, remove the Belt Cover. Loosen the Cable Clip for the Forward Clutch Cable and pull up on Cable to remove slack. Tighten the Cable Clip.
   f. Recheck belt tension, including OFF position tension. Replace Belt Cover when finished.
3. **Checking reverse belt tension in ON position:**
   a. **WARNING! Disconnect spark plug cap before checking belt tension.**
   b. Hold Reverse Clutch Lever in ON (engaged) position and push down on Handlebars to raise Tines off ground.
   c. Gently pull on Starter Handle. Tines should rotate backward.
   d. If Tines do not rotate backward, the Reverse Clutch Cable is too loose.
   e. To adjust tension, remove the Belt Cover. Loosen the Cable Clip for the Reverse Clutch Cable and pull up on Cable to remove slack. Tighten the Cable Clip.
   f. Recheck belt tension, including OFF position tension. Replace Belt Cover when finished.





Belt Replacement

Only a qualified technician should replace the Forward and/or Reverse Clutch Belt.

Long-Term Storage

When the equipment is to remain idle for longer than 20 days, prepare the Engine for storage as follows:

1. **CLEANING:**
   Wait for Engine to cool, then clean Engine with dry cloth. **NOTICE: Do not clean using water.** The water will gradually enter the Engine and cause rust damage. Apply a thin coat of rust preventive oil to all metal parts.
2. **FUEL:**
   To protect the fuel tank during storage, fill the tank with gasoline that has been treated with a fuel stabilizer additive. Follow fuel stabilizer manufacturer's recommendations for use. Refer to *Checking and Filling Fuel* on page 18.

⚠WARNING! TO PREVENT SERIOUS INJURY FROM FIRE:
Fill tank in a well-ventilated area away from ignition sources. If the engine is hot from use, shut the engine off and wait for it to cool before adding fuel. Do not smoke.

3. **LUBRICATION:**
   a. Change engine oil.
   b. Clean out area around spark plug. Remove spark plug and pour one tablespoon of engine oil into cylinder through spark plug hole.
   c. Replace spark plug, but leave spark plug cap disconnected.
   d. Pull Starter Handle to distribute oil in cylinder. Stop after one or two revolutions when you feel the piston start the compression stroke (when you start to feel resistance).
4. **STORAGE AREA:**
   Cover and store in a dry, level, well-ventilated area out of reach of children. Storage area should also be away from ignition sources, such as water heaters, clothes dryers, and furnaces.

NOTICE: During extended storage periods the Engine must be started every 3 months and allowed to run for 15–20 minutes or the Warranty is VOID.

5. **STARTING ENGINE DURING/AFTER STORAGE:**
   Before starting the Engine during or after storage, keep in mind that untreated gasoline will deteriorate quickly. Drain the fuel tank and change to fresh fuel if untreated gasoline has been sitting for a month, if treated gasoline has been sitting beyond the fuel stabilizer's recommended time period, or if the Engine does not start. For Engine starting instructions refer to *Starting the Engine* on page 12.

Troubleshooting

Problem	Possible Causes	Probable Solutions
Engine will not start	FUEL RELATED:	FUEL RELATED:
	1. No fuel in tank or fuel valve closed.	1. Fill fuel tank and open fuel valve.
	2. Choke not in CHOKE position, cold engine.	2. Move Choke to CHOKE position.
	3. Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.)	3. Clean out ethanol rich gasoline from fuel system. Replace components damaged by ethanol. Use only fresh 87+ octane unleaded gasoline treated with fuel stabilizer. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).**
	4. Low quality or deteriorated, old gasoline.	4. Use fresh 87+ octane unleaded gasoline treated with fuel stabilizer. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).**
	5. Carburetor not primed.	5. Pull on Starter Handle to prime.
	6. Dirty fuel passageways.	6. Clean out passageways using fuel additive. Heavy deposits may require further cleaning.
	7. Carburetor needle stuck. Fuel can be smelled in the air.	7. **Gently** tap side of carburetor float chamber with screwdriver handle.
	8. Too much fuel in chamber. This can be caused by the carburetor needle sticking.	8. Turn Choke to RUN position. Remove spark plug and pull the start handle several times to air out the chamber. Reinstall spark plug and set Choke to CHOKE position.
	9. Clogged Fuel Filter.	9. Replace Fuel Filter.
	IGNITION (SPARK) RELATED:	IGNITION (SPARK) RELATED:
	1. Spark plug cap not connected securely.	1. Connect spark plug cap properly.
	2. Spark plug electrode wet or dirty.	2. Clean spark plug.
	3. Incorrect spark plug gap.	3. Correct spark plug gap.
	4. Spark plug cap broken.	4. Replace spark plug cap.
	5. Incorrect spark timing or faulty ignition system.	5. Have qualified technician diagnose/ repair ignition system.
	COMPRESSION RELATED:	COMPRESSION RELATED:
	1. Cylinder not lubricated. Problem after long storage periods.	1. Pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again.
	2. Loose or broken spark plug. (Hissing noise will occur when trying to start.)	2. Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3.
	3. Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.)	3. Tighten head. If that does not remedy problem, replace head gasket.
	4. Engine valves or tappets mis-adjusted or stuck.	4. Have qualified technician adjust/ repair valves and tappets.
	ENGINE OIL RELATED:	ENGINE OIL RELATED:
	1. Low oil.	1. Fill engine oil to proper level. Check engine oil before EVERY use.
	2. Engine mounted on a slope, triggering low oil shutdown.	2. Bring engine level. Check engine oil.

Follow all safety precautions whenever diagnosing or servicing the equipment or engine.

Problem	Possible Causes	Probable Solutions
Engine misfires	1. Spark plug cap loose. 2. Incorrect spark plug gap or damaged spark plug. 3. Defective spark plug cap. 4. Old or low quality gasoline. 5. Incorrect compression.	1. Check wire connections. 2. Re-gap or replace spark plug. 3. Replace spark plug cap. 4. Use only fresh 87+ octane unleaded gasoline treated with fuel stabilizer. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).** 5. Diagnose and repair compression. (Use **Engine will not start: COMPRESSION RELATED** section.)
Engine stops suddenly	1. Fuel tank empty or full of impure or low quality gasoline. 2. Low oil shutdown. 3. Defective fuel tank cap creating vacuum, preventing proper fuel flow. 4. Faulty magneto. 5. Disconnected or improperly connected spark plug cap.	1. Fill tank with fresh 87+ octane unleaded gasoline treated with fuel stabilizer. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).** 2. Fill engine oil to proper level. Check engine oil before EVERY use. 3. Test/replace fuel tank cap. 4. Have qualified technician service magneto. 5. Secure spark plug cap.
Engine stops when under heavy load	1. Dirty air filter 2. Engine running cold.	1. Clean element. 2. Allow engine to warm up prior to operating equipment.
Engine knocks	1. Old or low quality gasoline. 2. Engine overloaded. 3. Incorrect spark timing, deposit buildup, worn engine, or other mechanical problems.	1. Refuel with fresh 87+ octane unleaded gasoline treated with fuel stabilizer. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).** 2. Do not exceed equipment's load rating. 3. Have qualified technician diagnose and service engine.
Engine backfires	1. Impure or low quality gasoline. 2. Engine too cold. 3. Intake valve stuck or overheated engine. 4. Incorrect timing.	1. Refuel with fresh 87+ octane unleaded gasoline treated with fuel stabilizer. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).** 2. Use cold weather fuel and oil additives to prevent backfiring. 3. Have qualified technician diagnose and service engine. 4. Check engine timing.
Engine labors or stalls when tilling	1. Throttle set too low. 2. Tilling at too great a depth.	1. Adjust throttle to increase Engine speed. 2. Lower Drag Bar and adjust Wheels as needed for shallower tilling.
Excessive shaking/ Tiller difficult to control	1. Ground too hard and/or dried out. 2. Drag Bar/Wheels set too deep for soil conditions.	1. Wet the ground prior to tilling. 2. Lower Drag Bar and adjust Wheels as needed for shallower tilling.
Engine runs, Tiller does not move	1. Forward OR Reverse Clutch Lever not engaged. 2. Tension on Forward and/or Reverse Clutch Belt is incorrect. 3. Protective output shaft key has sheared off.	1. Engage Forward OR Reverse Clutch Lever. 2. Adjust Forward and/or Reverse Clutch Cable. 3. Have qualified technician install new output shaft key.

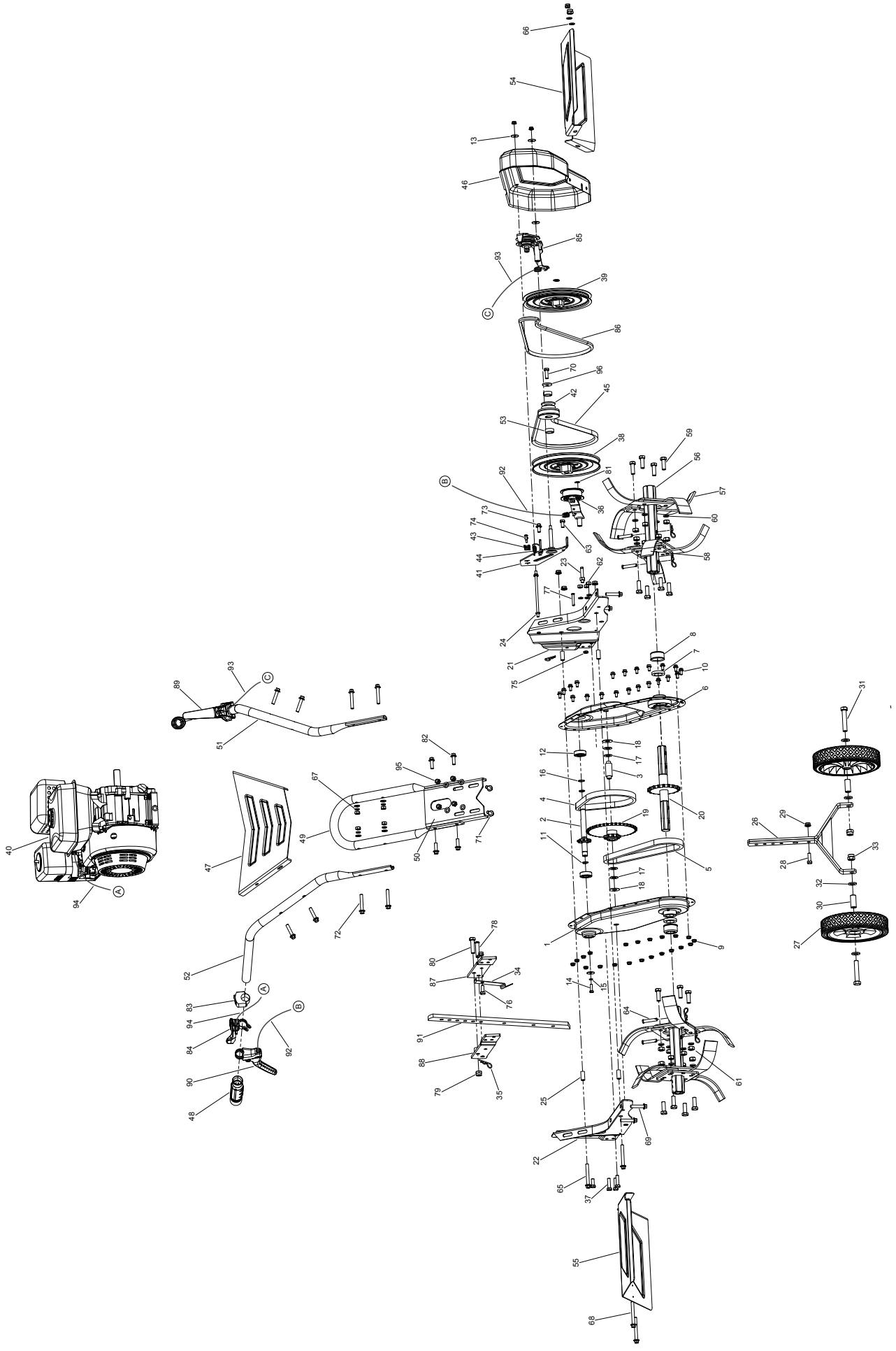
Follow all safety precautions whenever diagnosing or servicing the equipment or engine.

Parts List

Part	Description	Qty.
1	Right Gearbox Cover	1
2	Transmission Shaft	1
3	Sprocket Shaft	1
4	Chain	1
5	Chain	1
6	Left Gearbox Cover	1
7	Oil Seal 25x38x7	2
8	Oil Seal Cover	2
9	Flange Nut M6	23
10	Hex Head Flange Bolt M6x12	21
11	Elastic Ring Ø15	3
12	Deep Groove Ball Bearing 6202-2Z	2
13	Flat Washer Ø6	4
14	Hex Head Bolt M6x20	1
15	Spring Washer Ø6	1
16	Wear-Resistant Washer 15.2x18.9x0.5	1
17	Flat Gasket 12x24x1	4
18	Paper Gasket 13x30x1	2
19	Drive Gear Assembly	1
20	Gearbox Shaft	1
21	Left Engine Mounting Bracket	1
22	Right Engine Mounting Bracket	1
23	Support Pin	1
24	Connecting Rod	1
25	Sleeve 8x11x26	4
26	Wheel Bracket	1
27	Wheel	2
28	Hex Head Bolt M8x25	1
29	Flange Nut M8	9
30	Spacer 12x16x37	2
31	Hex Head Bolt M12x65	2
32	Flat Washer Ø12	4
33	Lock Nut M12	2
34	Drag Bar Holder	1
35	R-Clip	6
36	Forward Gear Tension Pulley Assembly	1
37	Hex Head Bolt M8x30	3
38	Forward Drive Pulley	1
39	Reverse Gear Drive Pulley	1
40	Engine	1
41	Cable Plate	1
42	Drive Wheel	1
43	Cable Bracket	2
44	Reverse Gear Tension Pulley Spring	1
45	Forward Clutch Belt 13x1050LW	1
46	Belt Cover	1
47	Handlebar Cover	1
48	Handle Grip Ø25	2

Part	Description	Qty.
49	Handle Frame	1
50	Connecting Plate	1
51	Left Handlebar	1
52	Right Handlebar	1
53	Spacer 20x25x9	2
54	Left Tine Shield	1
55	Right Tine Shield	1
56	Tine Shaft	2
57	Left Tine Blade	8
58	Right Tine Blade	8
59	Hex Head Bolt M10x30	16
60	Spring Washer Ø10	16
61	Nut M10	16
62	Nut M8	11
63	Hex Head Bolt M8x16	1
64	Clevis Pin 8x43	4
65	Hex Head Flange Bolt M8x65	2
66	Flat Washer 8	8
67	Spring Washer 8	11
68	Hex Head Flange Bolt M8x70	2
69	Hex Head Flange Bolt M8x40	8
70	Hex Head Bolt 5/16-24 M8x2	1
71	Hex Head Flange Bolt M8x20	4
72	Hex Head Flange Bolt M8x50	4
73	Hex Head Flange Bolt M8x16	2
74	Cross Groove Head Bolt M5x12	2
75	Nut M8	1
76	Hex Head Bolt M8x20	2
77	Clevis Pin 6x35	1
78	Clevis Pin 10x45	1
79	Lock Nut M10	2
80	Hex Head Bolt M10x35	1
81	Elastic Ring Ø8	1
82	Hex Head Flange Bolt M8x25	4
83	Engine On/Off Switch Assembly	1
84	Throttle Control	1
85	Reverse Gear Tension Pulley Assembly	1
86	Reverse Clutch Belt 9x1133LW	1
87	Left Drag Bar Support	1
88	Right Drag Bar Support	1
89	Forward Clutch Lever	1
90	Reverse Clutch Lever	1
91	Drag Bar	1
92	Forward Clutch Cable	1
93	Reverse Clutch Cable	1
94	Throttle Cable	1
95	Lock Nut M8	7
96	Large Washer Ø8	1

Assembly Diagram



PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.VV

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Emissions Control System Warranty

United States Emissions Control Defects Warranty Statement

The United States Environmental Protection Agency (herein EPA) and Harbor Freight Tools (herein HFT) are pleased to explain the emissions control system warranty on your 2015-2016 Small Off-Road Engine (herein engine). Within the United States, new off-road, spark-ignition engines certified for model year 2015-2016, must meet similar standards set forth by the EPA. HFT must warrant the emissions control system on your engine for the periods of time described below, provided there has been no abuse, neglect or improper maintenance of your engine.

Your emissions control system may include parts such as the carburetor or fuel-injection system, and the ignition system. Also included may be hoses, belts, connectors and other emissions-related assemblies.

Where a warrantable condition exists, HFT will repair your engine at no cost to you including diagnosis, parts and labor.

Manufacturer's Warranty Coverage

The 2015-2016 engines are warranted for two (2) years. If any emissions-related part on your engine is defective, the part will be repaired or replaced by HFT.

Harbor Freight Tools Emissions Control Defects Warranty Coverage

Engines are warranted for a period of two (2) years relative to emissions control parts defects, subject to the provisions set forth below. If any emissions related part on your engine is defective, the part will be repaired or replaced by HFT.

Owner's Warranty Responsibilities

- As the engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. HFT recommends that you retain all receipts covering maintenance on your engine, but HFT cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the engine owner, you should, however, be aware that HFT may deny you warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.
- You are responsible for shipping your engine to a HFT warranty station as soon as a problem exists. Contact the HFT Customer Service department at the number below to make shipping arrangements. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact the Harbor Freight Tools Customer Service Department at 1-888-866-5797.

Harbor Freight Tools Emissions Control Defects Warranty Provisions

1. Length of Coverage

HFT warrants to a first retail purchaser and each subsequent purchaser that the engine is free from defects in materials and workmanship that cause the failure of warranted parts for a period of two (2) years after the date of delivery to the first retail purchaser.

2. No Charge Repair or Replacement

Repair or replacement of any warranted part will be performed at no charge to the owner if the work is performed through a warranty station authorized by HFT. For emissions warranty service, contact the HFT Customer Service Department at 1-888-866-5797 or productsupport@harborfreight.com.

3. Consequential Damages Coverage

Coverage under this warranty shall also extend to the failure of any engine components caused by the failure of any warranted part while it is still covered under this warranty.

4. Coverage Exclusions

Warranty claims shall be filed in accordance with the provisions of the HFT warranty policy explained in the box at the top of the previous page. HFT shall not be liable for any loss of use of the engine, for any alternative usage, for any damage to goods, loss of time, or inconvenience. Warranty coverage shall also be excluded for any part which fails, malfunctions, or is damaged due to failure to follow the maintenance and operating instructions set forth in the Owner's Manual including, but not limited to:

a) Use of parts which are not authorized by HFT
b) Improper installation, adjustment or repair of the engine or of any warranted part unless performed by an authorized warranty center
c) Failure to follow recommendations on fuel use contained in the Owner's Manual
d) Improper or inadequate maintenance of any warranted parts
e) Repairs performed outside of the authorized warranty service dealers
f) Alterations by changing, adding to or removing parts from the engine.

5. Service and Maintenance

Component parts which are not scheduled for replacement as required maintenance or are scheduled only for regular inspection to the effect of "repair or replace as necessary" are warranted for the warranty period. Any warranted part which is scheduled for replacement as required maintenance is warranted for the period of time up to the first scheduled replacement point for that part. Any replacement part, provided it is equivalent in durability and performance, may be used in performance of maintenance or repairs. The owner is responsible for commissioning a qualified technician/mechanic to perform all required maintenance, as outlined in the Inspection, Cleaning, and Maintenance section in this manual.

6. Warranted Parts

1) Fuel Metering System
- i) Carburetor and its internal parts.
- ii) Fuel pump (if so equipped).
- iii) Cold start enrichment system.

2) Air Induction System
- i) Intake pipe/manifold.
- ii) Air cleaner.

3) Ignition System
- i) Spark plug.
- ii) Magneto ignition system.

4) Catalyst System (if so equipped)
- i) Exhaust pipe stud.
- ii) Muffler.
- iii) Catalytic converter (if so equipped).

5) Miscellaneous Items Used in Above Systems
- i) Vacuum, temperature and time sensitive valves and switches.
- ii) Hoses, belts, connectors, and assemblies.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

PREDATOR™
OUTDOOR POWER EQUIPMENT

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